

beam and said prestored reference data, and judges whether said object to be measured is a prism or a natural object based on the result of the comparison, and wherein the result of said judgement is displayed on said display unit.

2. (Amended) A distance measuring system according to claim 1, further comprising a density filter for adjusting said photodetection amount of said reflection light beam from said object to be measured, wherein an adjusting position of said density filter is associated with said measured distance, and said reference data obtained by the association is stored for judging said object to be measured as said reference data.

6. (Amended) A distance measuring system according to claim 1, wherein there are provided at least a prism measurement mode and a non-prism measurement mode, and when said prism mode is selected, said distance is displayed on said display unit only when said object to be measured is judged as a corner cube, and the fact that said object to be measured is not a corner cube is displayed on said display unit when said object to be measured is not judged as a corner cube.

7. (Amended) A distance measuring system according to claim 1, wherein photodetection sensitivity can be automatically changed over according to said photodetection amount of said reflection light beam from said object to be measured, said object to be measured is judged according to said photodetection amount, and the result of judgment on said object to be measured is displayed on said display unit.

8. (Newly added) A distance measuring system according to claim 1, further comprising a mode changing switch for selecting a prism mode for using a prism as said object to be measured and a non-prism mode for using a natural object as said object to be measured.